

# **METHODS AND COMPOSITIONS FOR ASSESSING A SAMPLE BY MALDI MASS SPECTROMETRY**

## **ABSTRACT OF THE DISCLOSURE**

**[0137]** The invention provides methods for preparing a MALDI sample plate. In general, the methods involve contacting a sample with an array of features containing capture agents that specifically bind to analytes, processing any analytes bound to the capture agents for MALDI analysis, and transferring the processed analytes to a MALDI sample plate. Also provided is a system for preparing a MALDI sample plate, containing an automatic fluid delivery device that is fluidically connected to a sample, and also to MALDI processing agents. In certain embodiments, the analytes present on the prepared subject MALDI sample plate may be evaluated by mass spectrometry. Kits and other compositions are provided for performing the subject methods. The subject invention finds use in methods of simultaneously assessing the presence of several analytes in a single sample, and, as such, the invention finds use in a variety of different medical, research and proteomics applications.